

FIG. 1
Prior Art

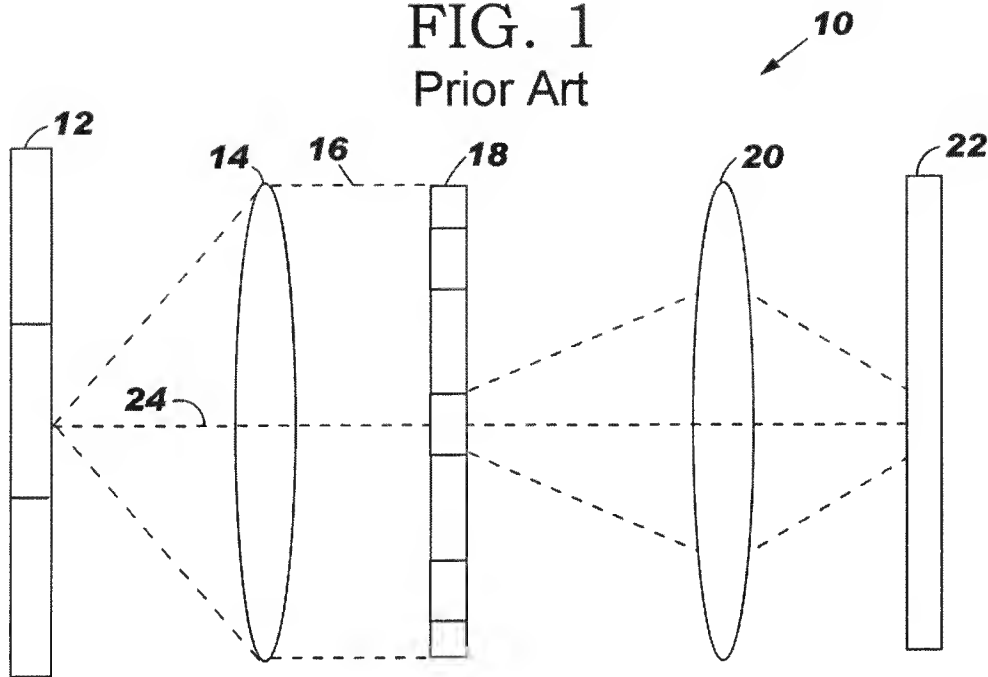


FIG. 2

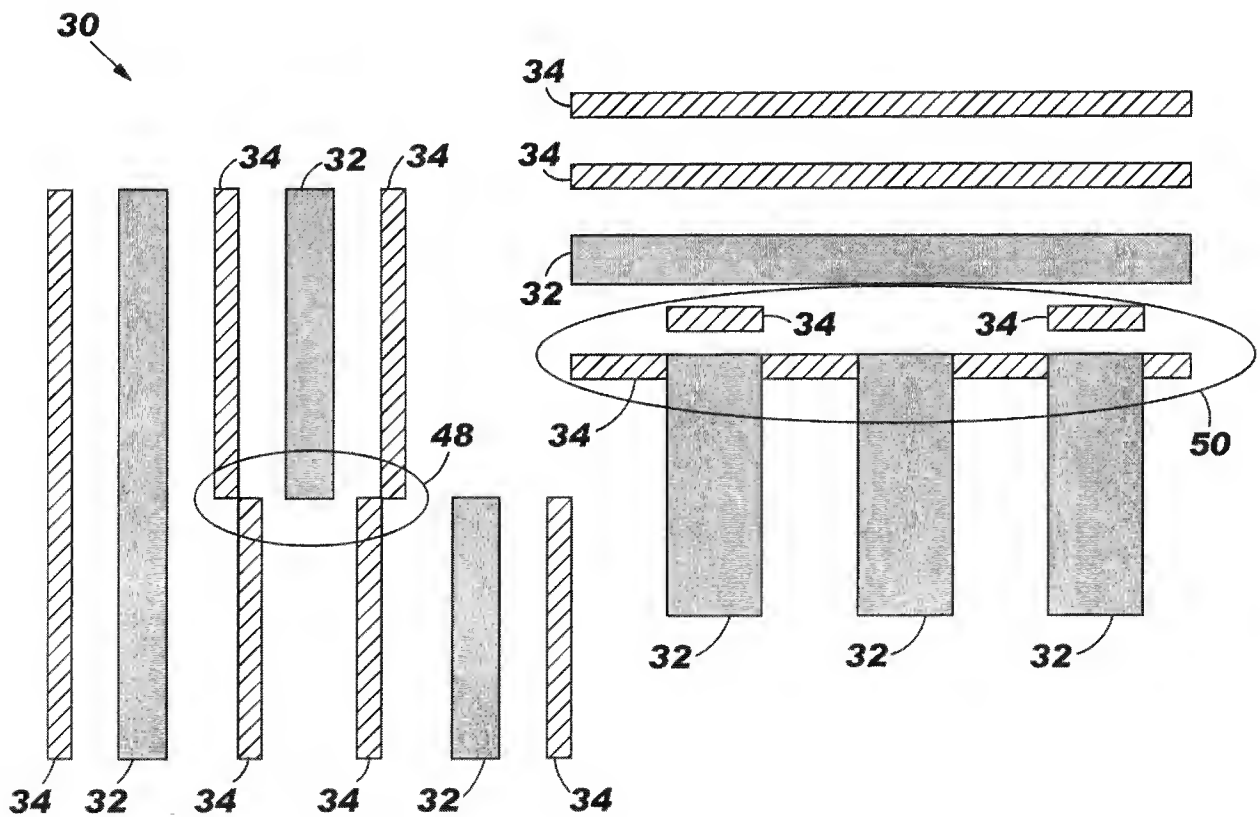


FIG. 3

36

| 38 | | | | |
|----|--------|-----------|--------------|---------|
| 40 | | 42 | | 46 |
| #A | Pitch | Line Bias | Assist Width | Loc1 |
| 0 | 0.325 | 0.1625 | 0 | 0 |
| 0 | 0.3375 | 0.16875 | 0 | 0 |
| 0 | 0.35 | 0.175 | 0 | 0 |
| | | | | |
| 1 | 0.5 | 0.15625 | 0.059375 | 0 |
| 1 | 0.5125 | 0.1625 | 0.059375 | 0 |
| 1 | 0.525 | 0.16875 | 0.0625 | 0 |
| | | | | |
| 2 | 0.7 | 0.14375 | 0.05 | 0.1375 |
| 2 | 0.7125 | 0.14375 | 0.05625 | 0.13437 |
| 2 | 0.725 | 0.15 | 0.05625 | 0.1375 |

FIG. 4

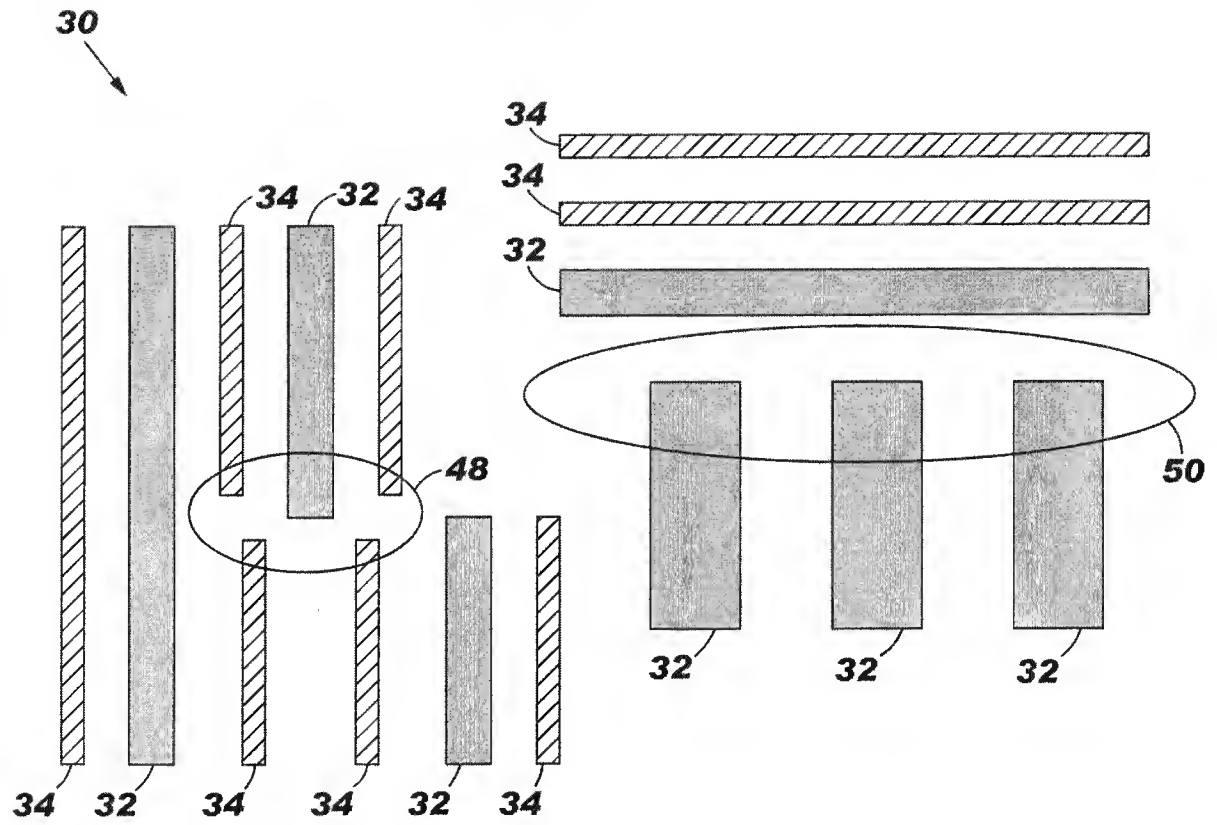


FIG. 5

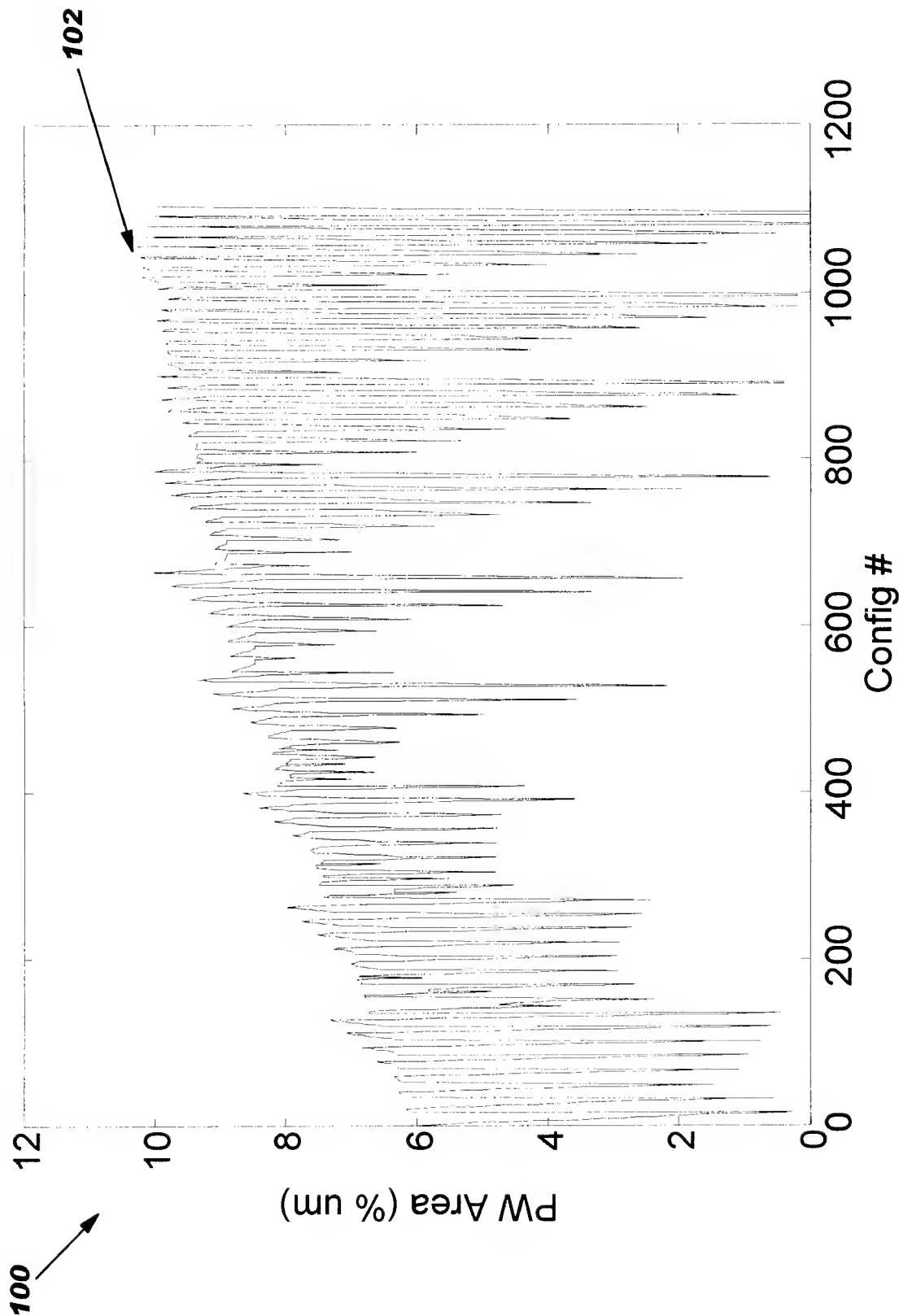


FIG. 6

104
↓

| Assist Width | Loc1 | PW Area (% μm) | PWareaRank |
|--------------|----------|----------------------------|------------|
| 0.05 | 0.15625 | 10.1708 | 2 |
| 0.05 | 0.159375 | 10.2137 | 3 |
| 0.053125 | 0.15625 | 10.1838 | 4 |
| 0.053125 | 0.159375 | 10.2267 | 5 |
| 0.05625 | 0.153125 | 10.1538 | 6 |
| 0.05625 | 0.15625 | 10.1967 | 7 |
| 0.05625 | 0.159375 | 10.2396 | 8 |
| 0.0625 | 0.159375 | 10.1733 | 9 |

FIG. 7

106
↓

| Pitch | #A | Assist Width | Loc1 | PWareaRank |
|-------|----|--------------|----------|------------|
| 0.7 | 2 | 0.059375 | 0.159375 | 1 |
| | 2 | 0.05625 | 0.159375 | 2 |
| | 2 | 0.053125 | 0.159375 | 3 |
| | 2 | 0.05 | 0.159375 | 4 |
| | 2 | 0.05625 | 0.15625 | 5 |
| | 2 | 0.053125 | 0.15625 | 6 |
| | 2 | 0.0625 | 0.159375 | 7 |
| | 2 | 0.05 | 0.15625 | 8 |
| | 2 | 0.05625 | 0.153125 | 9 |



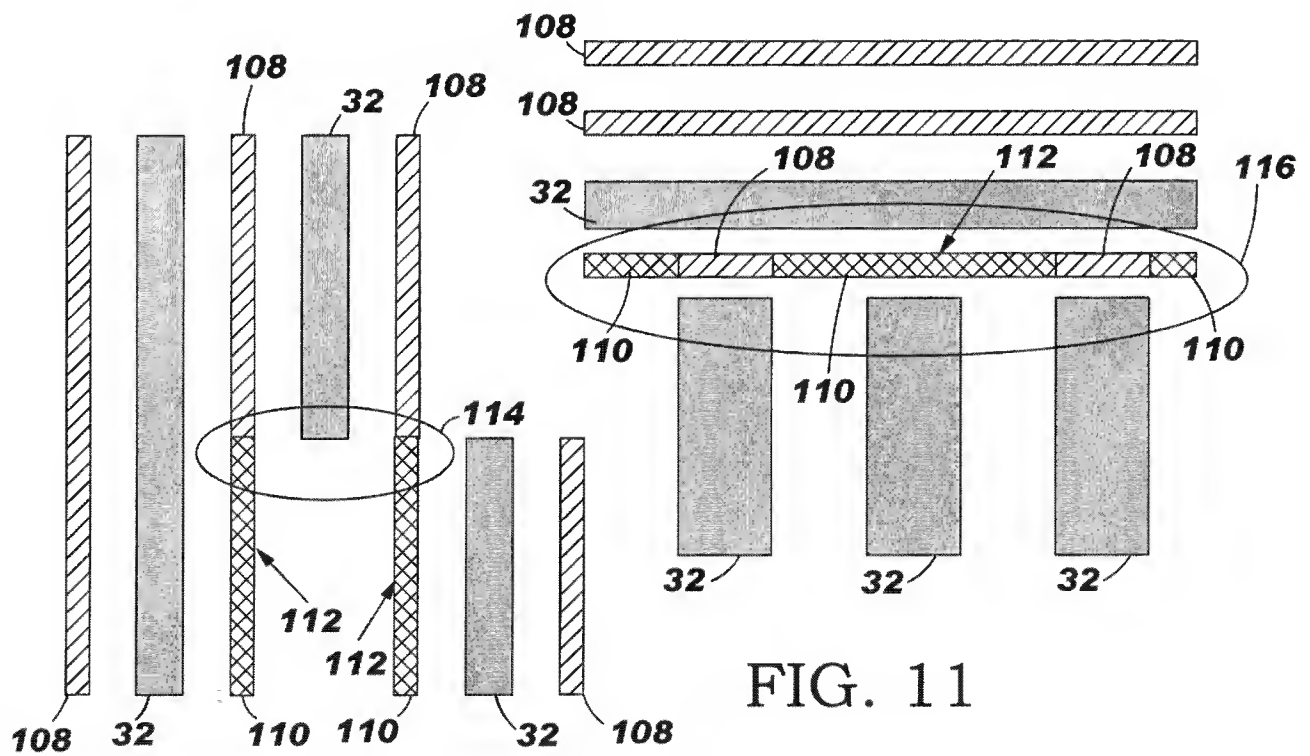
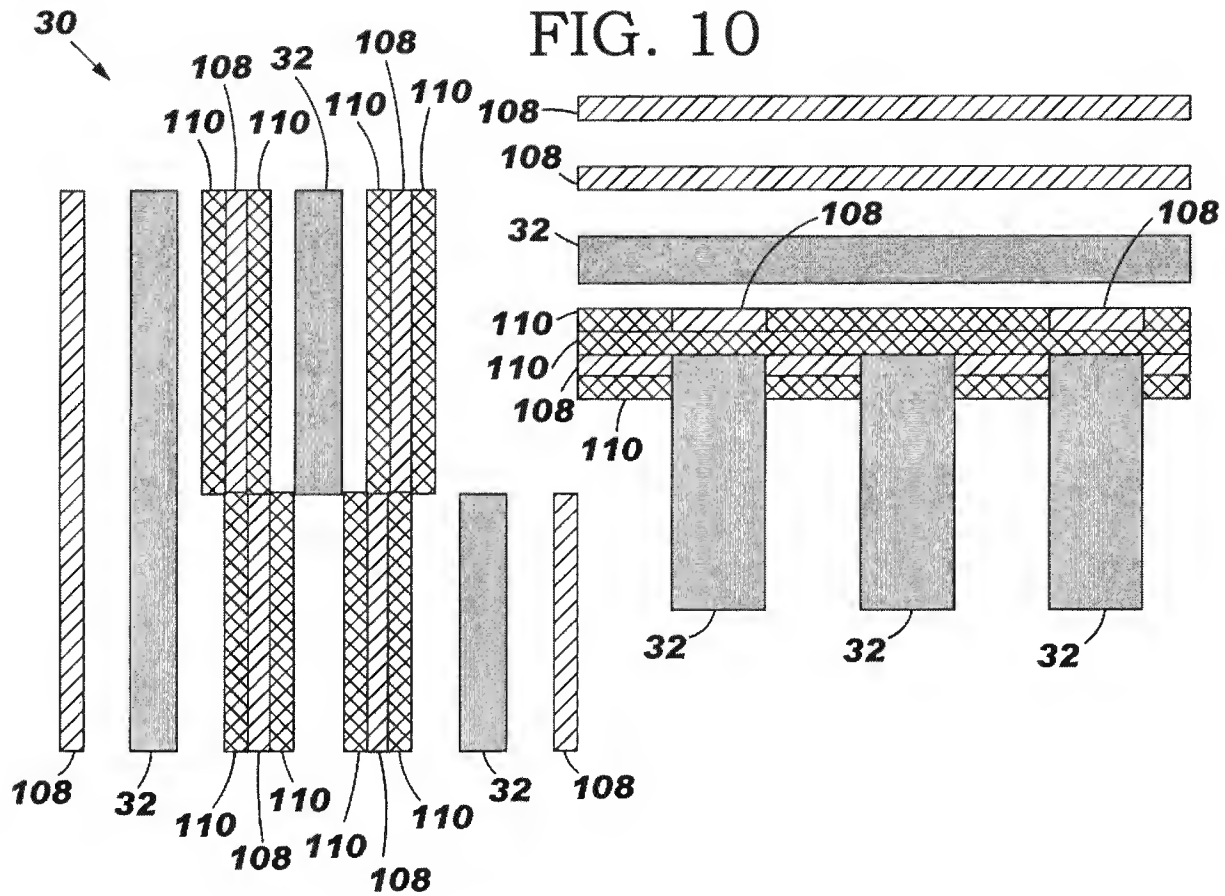
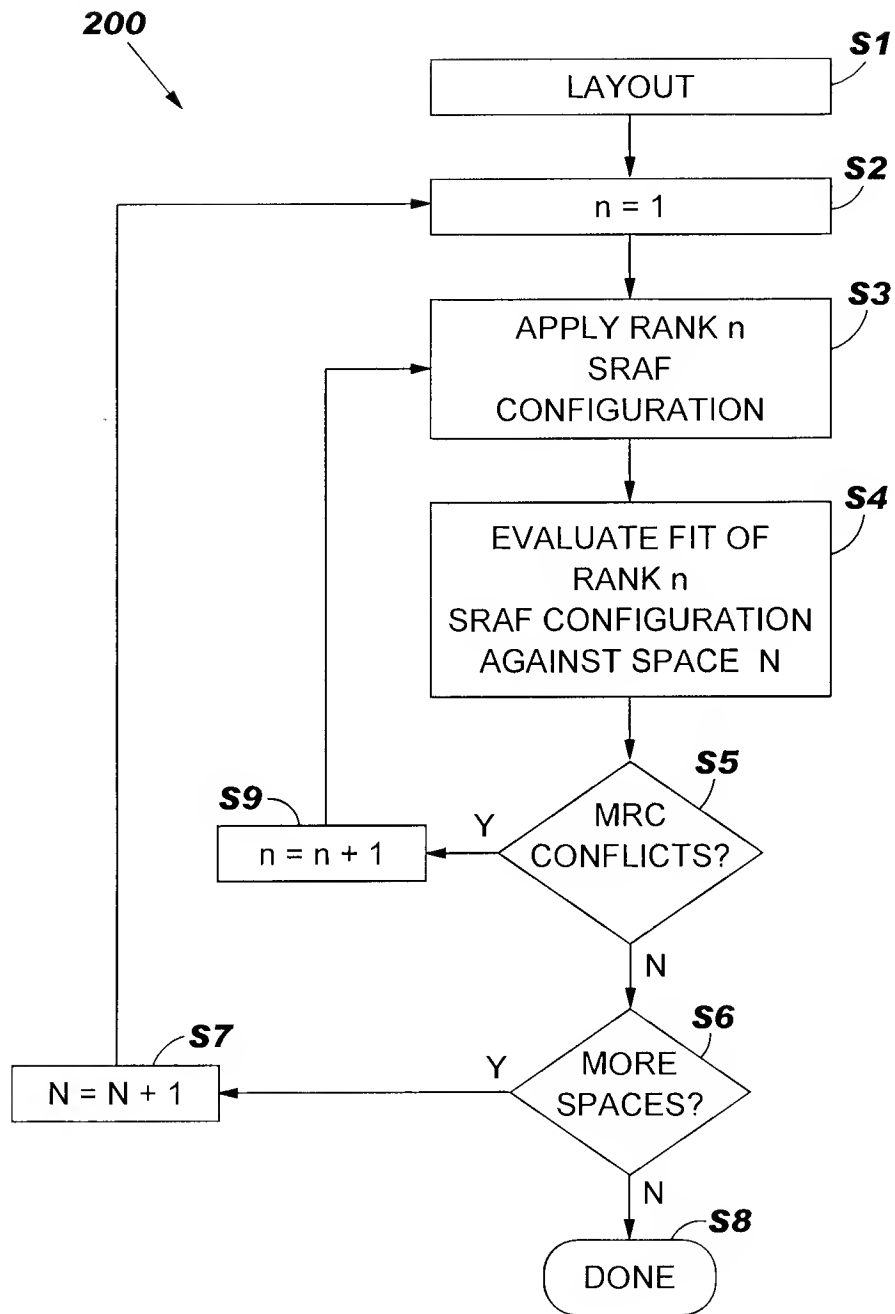


FIG. 12



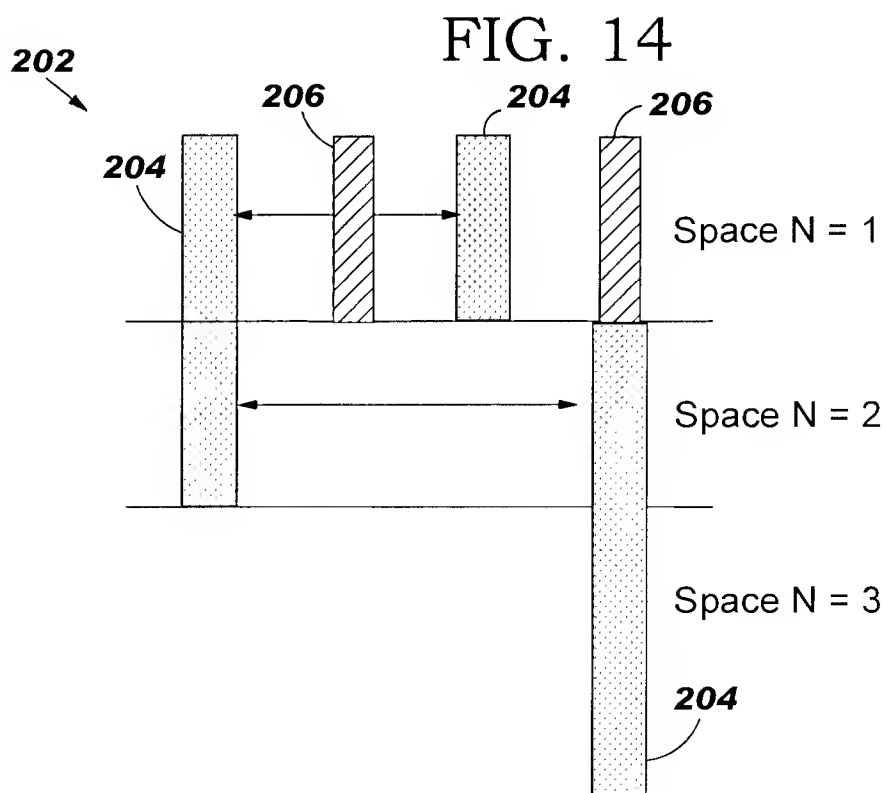
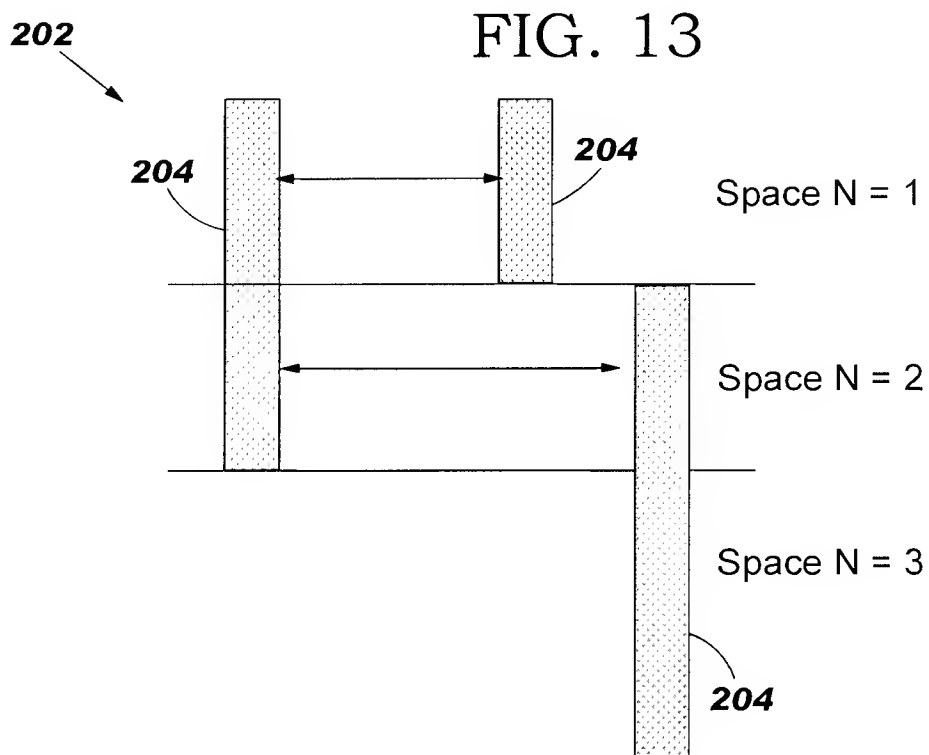


FIG. 15

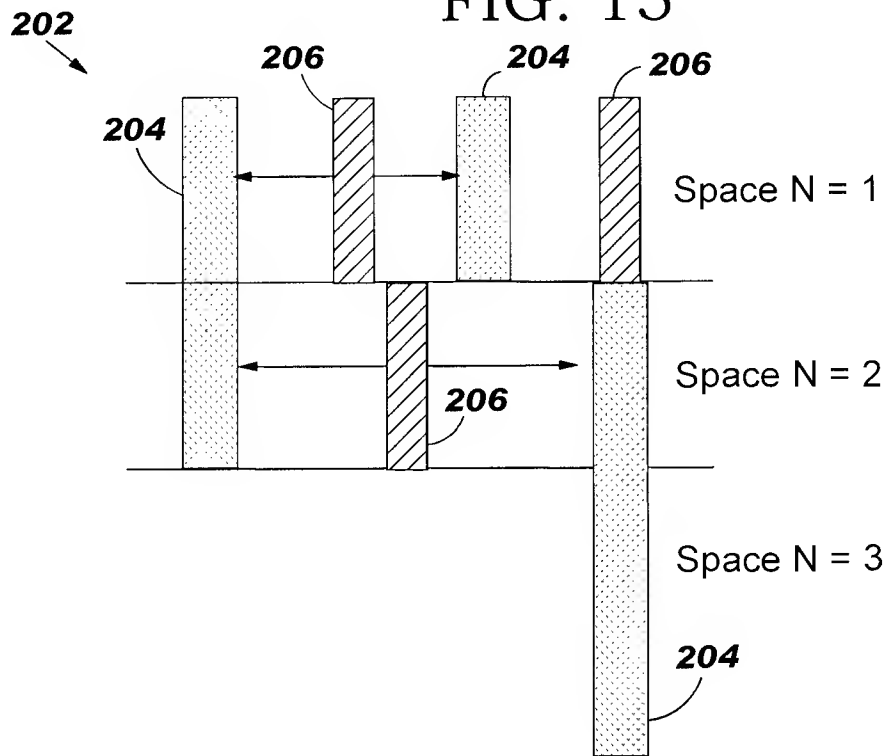


FIG. 16

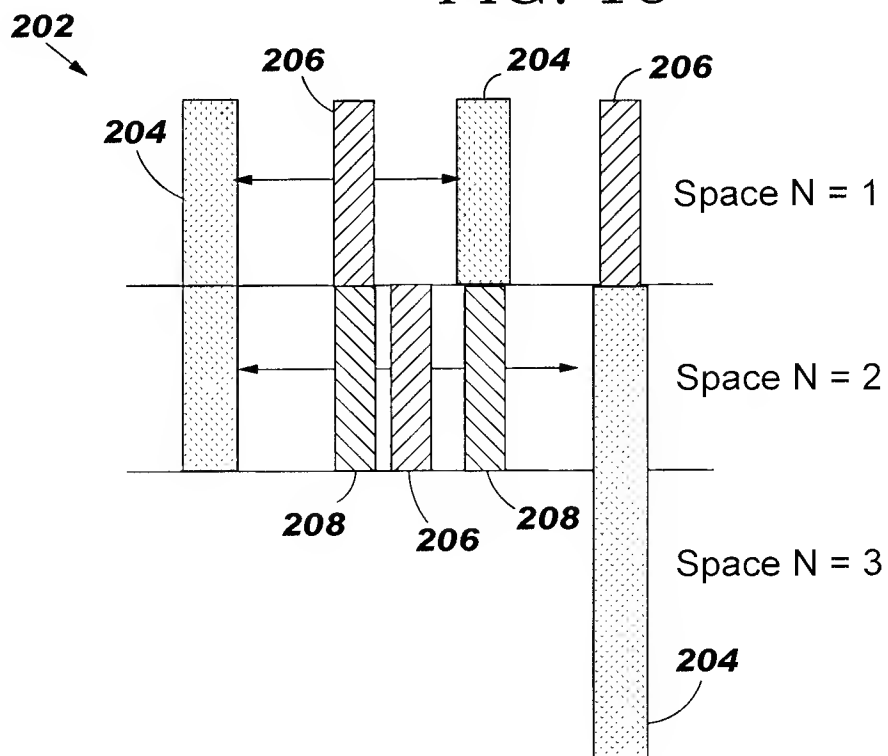


FIG. 17

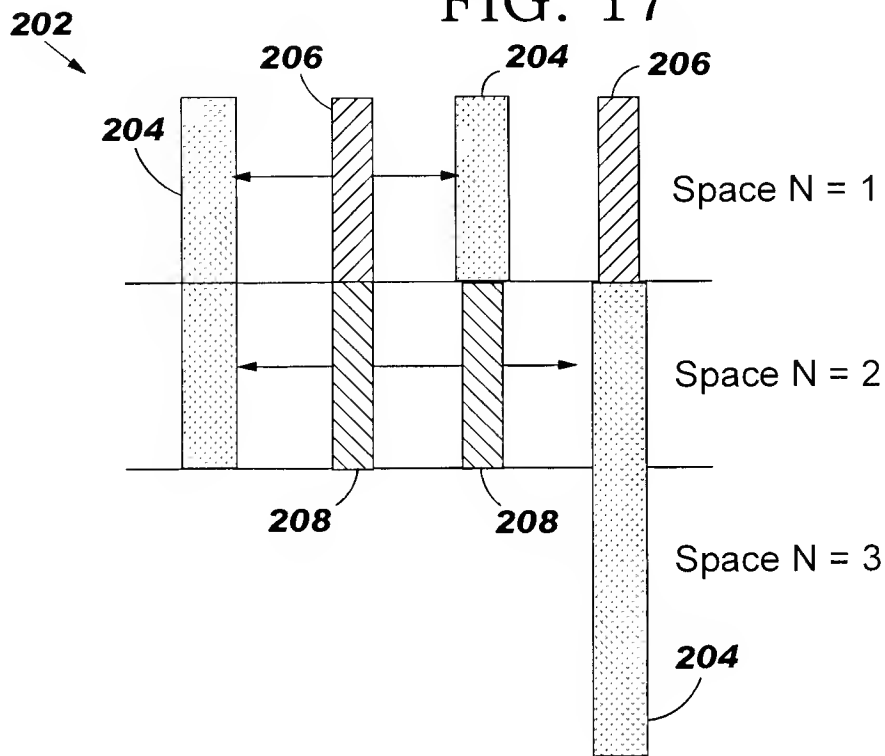


FIG. 18

